

FIG. 1

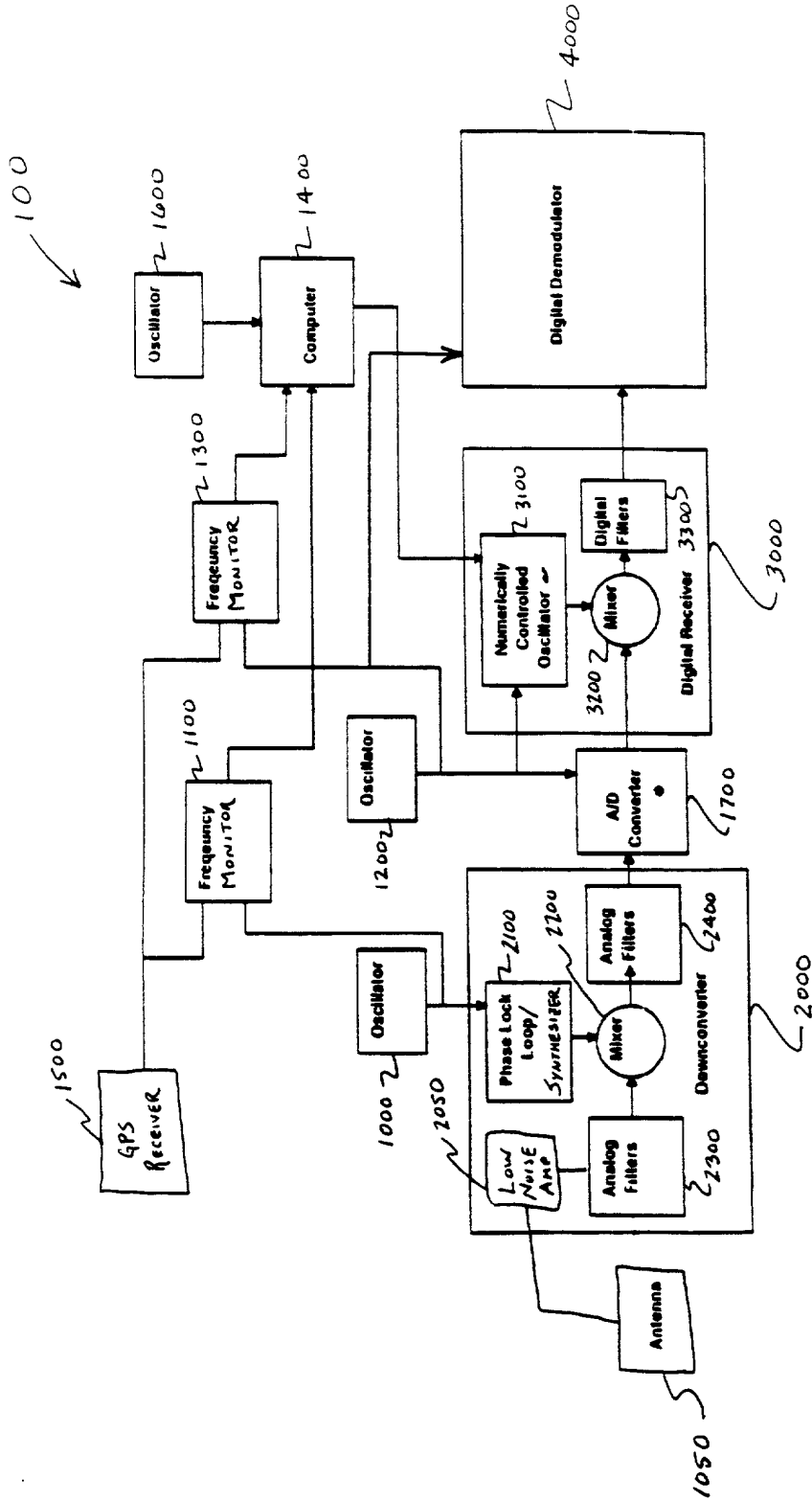


FIG 2A

FIG. 2B is a block diagram of a system 100 for processing signals received from a GPS receiver 1500. The system 100 includes an Antenna 1050, a Low Noise Amp 2130, a Phase Lock Loop/Synthesizer 2100, a Mixer 2110, Analog Filters 2140, a Downconverter 2200, an A/D Converter 1700, a Numerically Controlled Oscillator 2310, a Mixer 3200, Digital Filters 3300, a Digital Demodulator 4000, a Computer 1400, a Frequency Monitor 1325, and an Oscillator 1025. The Antenna 1050 is connected to the Low Noise Amp 2130, which is connected to the Phase Lock Loop/Synthesizer 2100. The Phase Lock Loop/Synthesizer 2100 is connected to the Mixer 2110, which is connected to the Analog Filters 2140. The Analog Filters 2140 are connected to the Downconverter 2200, which is connected to the A/D Converter 1700. The A/D Converter 1700 is connected to the Numerically Controlled Oscillator 2310, which is connected to the Mixer 3200. The Mixer 3200 is connected to the Digital Filters 3300, which are connected to the Digital Demodulator 4000. The Digital Demodulator 4000 is connected to the Computer 1400. The Computer 1400 is connected to the Frequency Monitor 1325, which is connected to the Oscillator 1025. The Oscillator 1025 is connected to the Phase Lock Loop/Synthesizer 2100 and the Numerically Controlled Oscillator 2310. A GPS Receiver 1500 is also connected to the Computer 1400. A block labeled 100 with an arrow points to the overall system.

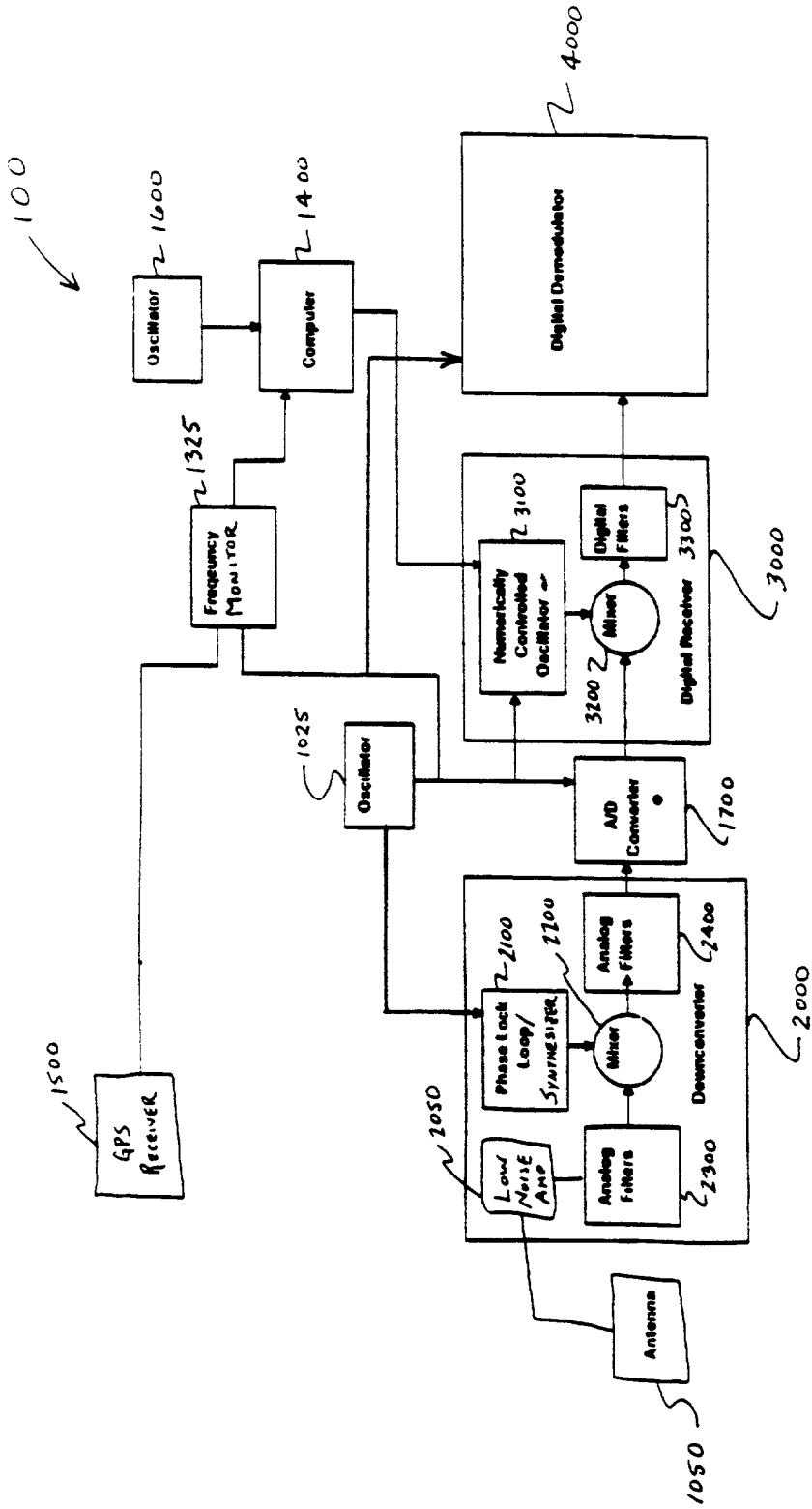


FIG 2B

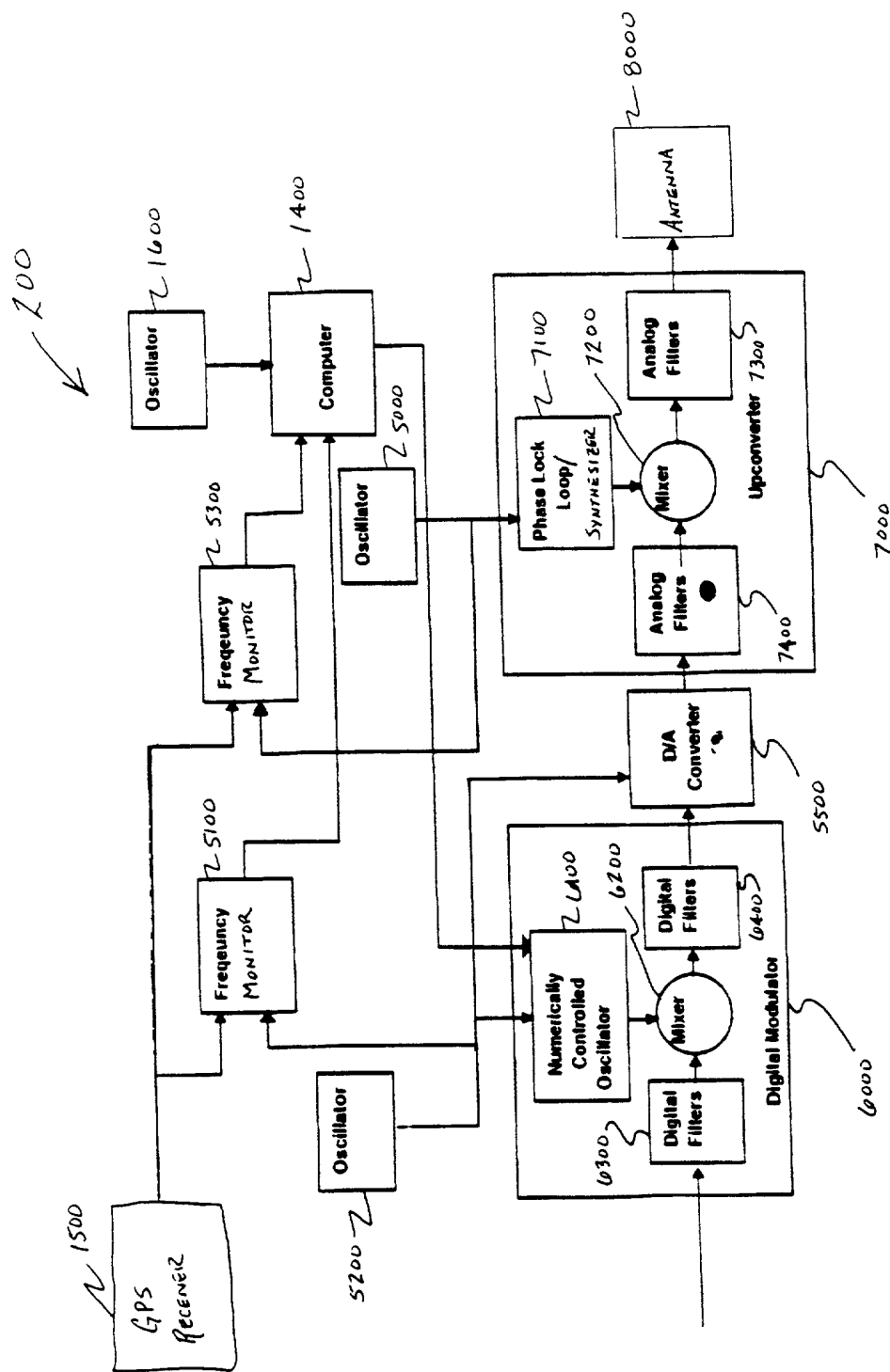


FIG 3A

FIG. 3B is a block diagram of a GPS receiver system 200. The system includes a GPS Receiver 1500, a Frequency Monitor 5125, an Oscillator 5225, a Computer 1400, and an Antenna 8000. The GPS Receiver 1500 is connected to the Frequency Monitor 5125. The Frequency Monitor 5125 is connected to the Computer 1400. The Computer 1400 is connected to the Oscillator 5225. The Oscillator 5225 is connected to the Numerically Controlled Oscillator 6200. The Numerically Controlled Oscillator 6200 is connected to the Digital Modulator 6000. The Digital Modulator 6000 includes a Numerically Controlled Oscillator 6200, a Mixer 6300, and Digital Filters 6400. The Digital Modulator 6000 is connected to the D/A Converter 5500. The D/A Converter 5500 is connected to the Upconverter 7300. The Upconverter 7300 includes a Phase Lock Loop/Synthesizer 7100, a Mixer 7200, and Analog Filters 7400. The Upconverter 7300 is connected to the Antenna 8000.

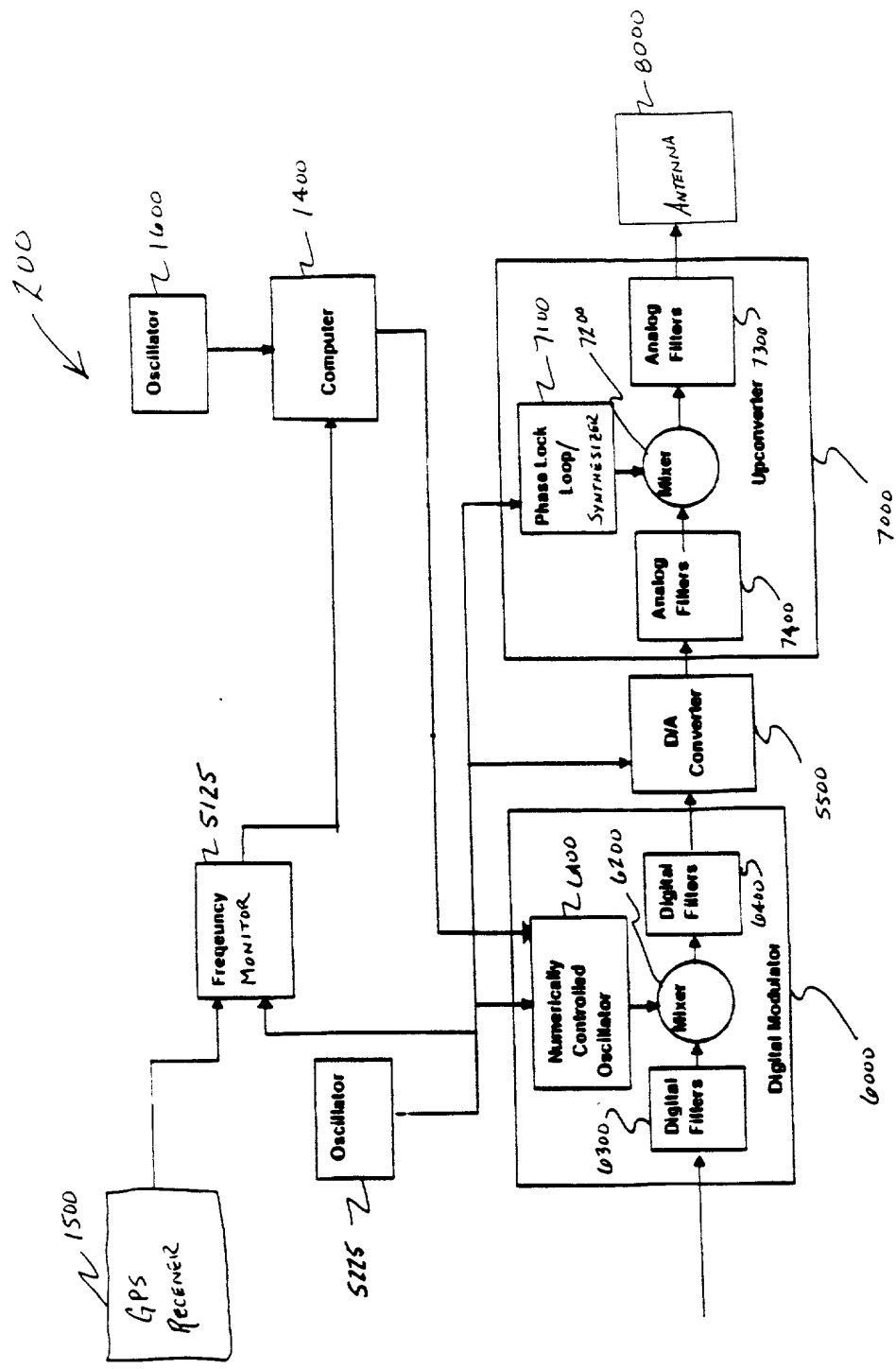


FIG 3B